

SEQUENCE LISTING

SEQ ID NO:1

human IRAK-4 amino acid sequence

- 5 MNKPITPSTYVRCLNVGLIRKLSDFIDPQEGWKKLAVAIAKKPSGDDRYNQFHRRF
EALLQTGKSPTSELLFDWGTNCTAGDLVDLLIQNEFFAPASLLLPDAVPKTANT
LPSKEAITVQKQMPFCDKDRITLMTVPVQNLEQSYMPDSSSPENKSLEVSDFRHF
SFSFYELKNVTNFDERPISVGGNKMGEFGVVKGYVNNTTVAVKKLAAMV
DITTEELKQQFDQEIYMAKQCENLVELLGFSSDGDCLVYVYMPNGSLDR
10 LSCLDGTPLSWHMRCKIAQGAANGINFLHENHHHRDIKSANILLDEAFTAKISD
FGLARASEKFAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLLEITGLPA
VDEHREPQLLLDIKEEIEDEKTIEDYIDKKMNDADSTSEAMYSVASQCLHEKK
NKRPDIIKVQQLQEMTAS

SEQ ID NO:2

human IRAK-4 cDNA sequence

- ATGAACAAACCATAACACCATCAACATATGTGCGCTGCCTCAATGTTGGACT
20 AATTAGGAAGCTGTCAGATTTTATTGATCCTCAAGAAGGATGGAAGAAGTTA
GCTGTAGCTATTAAAAAACCATCTGGTGATGATAGATACAATCAGTTTCACAT
AAGGAGATTGAAGCATTACTTCAAAGTGGAAAAAGTCCCACTTCTGAATTA
CTGTTTGACTGGGGCACCACAAATTGCACAGCTGGTGATCTTGTGGATCTTT
GATCCAAAATGAATTTTTGCTCCTGCGAGTCTTTGCTCCAGATGCTGTTC
25 CAAAGTCTAATACACTACCTTCTAAAGAAGCTATAACAGTTCAGCAAAAA
CAGATGCCTTTCTGTGACAAAGACAGGACATTGATGACACCTGTGCAGAATC
TTGAACAAAGCTATATGCCACCTGACTCCTCAAGTCCAGAAAATAAAAGTTT
AGAAGTTAGTGATACACGTTTTCACAGTTTTCATTTTATGAATTGAAGAATG
TCACAAATAACTTTGATGAACGACCCATTTCTGTTGGTGGTAATAAAATGGGA
30 GAGGGAGGATTGGAGTTGTATATAAAGGCTACGTAAATAACACAAGTGTGG
CAGTGAAGAAGCTTGCAGCAATGGTTGACATTACTACTGAAGAAGTGAACA
GCAGTTTGATCAAGAAATAAAAGTAATGGCAAAGTGTAACATGAAAACCTTA
GTAGAAGTACTTGGTTTCTCAAGTGATGGAGATGACCTCTGCTTAGTATATGT
TTACATGCCTAATGGTTTCATTGCTAGACAGACTCTTGTGCTGGATGGTACTC

CACCAC TTTCTTGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGC
 ATCAATTTTCTACATGAAAATCATCATATTCATAGAGATATTAAGTGCAAA
 TATCTTACTGGATGAAGCTTTTACTGCTAAAATATCTGACTTTGGCCTTGCAC
 GGGCTTCTGAGAAGTTTGCCAGACAGTCATGACTAGCAGAATTGTGGGAAC
 5 AACAGCTTATATGGCACCAGAAGCTTTGCGTGAGAAAATAACACCCAAATCT
 GATATTACAGCTTTGGTGTGTTTTACTAGAAAATAAATACTGGACTTCCAGC
 TGTGGATGAACACCGTGAACTCAGTTATTGCTAGATATTAAAGAAGAAATT
 GAAGATGAAGAAAAGACAATTGAAGATTATATTGATAAAAAGATGAATGAT
 GCTGATTCCACTTCAGTTGAAGCTATGTACTCTGTTGCTAGTCAATGTCTGCAT
 10 GAAAAGAAAATAAGAGACCAGACATTAAGAAGGTTCAACAGCTGCTGCAA
 GAGATGACAGCTTCTTAA

SEQ ID NO:3

15 murine IRAK-4 amino acid sequence

MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLVAIAIKKPSGDDRYNQFHRRF
 EALLQTGKSPTCELLFDWGTNCTVGDLDLLVQIELFAPATLLLPDAVPQT VKS
 LPPREAAATVAQTHGPCQEKDRTSVMPMPKLEHSCEPPDSSSPDNRSVESSDTRFH
 20 SFSFHELKSITNMFDEQPASAGGNRMGEGGFVVYKGCVNNTIVAVKKLGAMVE
 ISTEELKQQFDQEI KVMATCQHENLVELLGFSSDSNDLCLVYAYMPNGSLDRLS
 CLDGTPLPSWHTRCKVAQGTANGIRFLHENHHIHRDIKSANILLDKDFTAKISDFG
 LARASARLAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLELITGLAAV
 DENREPQLLLDIKEIEDEEKTIEDYTDKMSDADPASVEAMYSAASQCLHEKKN
 25 RRPDIKAVQQLQEMSA

SEQ ID NO:4

mouse IRAK-4 cDNA sequence

GCGGCCGCGTCGACATGCCCCGGTGACCCGACGATCCCGATCGCAGGCAGT
 CTGAAGTCGCCTGGTGGTCTGCGTCCTCCACCCCGAGTCCTCGCCGGACGT
 GGGCGGACGCCGATCGCCTTGTCAGGAAGCGAGGGACGTCCGAGAGGAAG
 TAGAAGATGAACAAGCCGTTGACACCATCGACATACATACGCAACCTTAATG
 TGGGGATCCTTAGGAAGCTGTCGGATTTTATTGATCCTCAAGAAGGGTGAA

GAAATTAGCAGTAGCTATCAAAAAGCCGTCCGGCGACGACAGATACAATCAG
 TTCCATATAAGGAGATTCTGAAGCCTTACTTCAGACCGGAAGAGCCCCACCT
 GTGAAGTGTGTTGACTGGGGACCACGAACTGCACAGTTGGCGACCTTGTG
 GATCTACTGGTCCAGATTGAGCTGTTTGCCTCCGCACTCTCCTGCTGCCGGA
 5 TGGCGTTCCTCCAAACCGTCAAAAAGCCTGCCTCCTAGAGAAGCGGCAACAGTG
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 TGCCGAAGCTAGAACACAGCTGCGAGCCACCGGACTCTCAAGCCCAGACAA
 CAGAAGTGTAGAGTCCAGCGACACTCGGTTCCACAGCTTCTCGTTCATGAAC
 TGAAGAGCATCACAAACAATTGACGAGCAACCCGCGCTGCGCGGTGGCAA
 10 CCGGATGGGAGAGGGGGGATTGGAGTGGTGTACAAGGGCTGTGTGAACAAC
 ACCATCGTGGCGGTGAAGAAGCTCGGAGCGATGGTTGAAATCAGTACTGAAG
 AACTAAAGCAACAGTTTGATCAAGAAATTAAGTAATGGCAACGTGTCAGCA
 CGAGAACCTGGTGGAGCTGCTCGGCTTCTCCAGCGACAGCGACAACCTGTGC
 TTAGTGTATGCTTACATGCCAACGGGTCTTGTGTGACAGACTGTCCTGCCT
 15 GGATGGTACACCACCGCTTCTGTCACACAAGGTGCAAGTTGCTCAGGGG
 ACAGCAAAATGGCATCAGTTTCTGCATGAAAATCATCACATTCATAGAGATA
 TAAAAAGTGCAAAATATCTTACTAGACAAAGACTTTACTGCCAAAATATCTGAC
 TTTGGGCTTGACGGGCTTCGGCAAGGCTAGCGCAGACGGTCATGACCAGCC
 GAATCGTGGGCACAACGGCTTACATGGCACCCGAGCTTTGCGGGGAGAAAT
 20 AACACCCAAATCTGACATCTACAGCTTCGGCGTGGTTCTGTTGGAGCTGATAA
 CCGGCTGGCGGCTGTGGATGAAAACCGTGAACCTCAACTACTGCTGGATAT
 TAAAGAAGAGATTGAAGATGAAGAGAAGACGATTGAAGATTACACGGATGA
 GAAGATGAGCGATGCGGACCCTGCTTCGTTGGAAGCAATGTACTCTGCTGCT
 AGCCAGTGTCTGCATGAGAAGAAAAACAGACGGCCAGACATTGCAAGGTTCT
 25 AACAGCTGCTACAAGAGATGTCTGCTTAA

SEQ ID NO:5

Sense primer for amplification of human IRAK-4

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ATGAACAAACCCATAACACCATCAACATATGTGC

SEQ ID NO:6

Antisense primer for amplification of human IRAK-4

TTAAGAAGCTGTCATCTCTTGCAGC